TV
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PHILIPS
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Help?
If this instruction manual does not give an answer or if 'Before calling service' do not solve your TV problem, you can call your Local Philips Customer or Service Centre. See the supplied World-wide guarantee booklet.
Please, have the Model and Product number which you can find at the back of your television set or on the packaging, ready, before calling the Philips helpline.

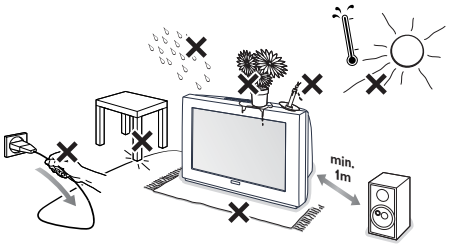
Model:

Product No:

English

Preparation

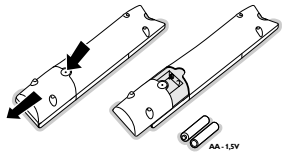
1 **Place the TV on a solid surface**.
For ventilation, leave at least 5 cm free all around the TV.



Do not place the TV on a carpet.
To prevent any unsafe situations, do not place any objects on top of the TV. Avoid heat, direct sunlight and exposure to rain or water. Keep mobile telephones at a safe distance to avoid disturbances in picture and sound.

2 Insert the aerial plug firmly into the aerial socket ⊓ at the back of the TV. For best picture quality use the suppressor-aerial cable supplied.

3 Remote control: Remove the cover of the battery compartment.



Insert the 2 batteries supplied (Type R6-1,5V).
The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many countries exhausted batteries may not be disposed of with your household waste. Please check on how to dispose of exhausted batteries according to local regulations.

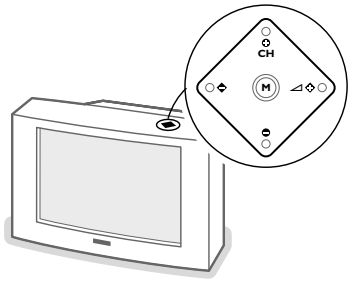
Note: this remote control functions with TVs and other equipment which use the RC6 signalling standard.

4 **Insert the mains plug of the TV** in the wall socket having a mains voltage of 220V-240V.
To prevent damaging the mains (AC) cord which could cause a fire or electric shock, do not place the TV on the cord.

5 **Switch the TV on** : Press the power switch ⏻ on the front of your TV.
A green indicator on the front of the TV lights up when the screen is on.
If the indicator is red, press the **-CH+** keys on the remote control.

The green lamp blinks every time you press a key on the remote control.

Keypad on top of the TV



Should your remote be lost or broken you can still change some of the basic settings with the keys on top of your TV.

- Press the ◿ - or + key to adjust the volume.
- Press the **CH** - and + key to browse through the TV channels or sources stored and to select them.
- Press the **M** key to summon the main menu.
  Use the ◿ - and + keys to select the menu items in the horizontal axis.
  Use the **CH** - and + keys to select submenu items in the vertical axis.
  Note:
  - *Sometimes not all the menu items are visible on the screen. Press the **CH** + key to reveal all items.*
  - *Exit lets you dismiss the menu. Select **Exit** and press the **M** key.*

Installation

Use of the remote control

Use the on-screen info for more information about the different keys. See p. 7.

Select peripherals

Press this key repeatedly to select **AV1**, **AV2**, **AV3, AV4** or **SIDE**, according to where you connected the peripherals (p. 19).

VCR DVD AMP AUX
Press one of these keys to use the remote control directly in the video recorder, DVD, amplifier or other auxiliary mode (**CD**, **SAT**). A green indicator lights up.
To return to TV mode, press the key again or wait for the indicator to dim (20 sec.)

Standby

The set is switched off and the red indicator lights up.
To switch the TV on again, press again.

Video recorder

see p. 19

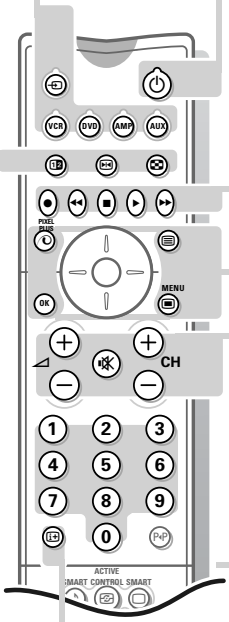
Dual screen

- Press the 1 2 key to switch on Dual screen. The screen is divided into 2 parts: the left side for the normal main picture, the right side for teletext broadcast by the selected TV channel. To operate teletext, see p. 13.
- Press the key to select a vertical squeezed or a non vertical squeezed picture size.
- Press **+CH-** to run through the teletext pages.
- When in Teletext Dual screen, press the key to return to a full picture screen or press the 1 2 key to return to a full Teletext screen.

Freeze

To activate/de-activate the frozen picture and to hold a teletext page. See p. 14.

no function



no function

Teletext on/off p. 13

Main menu on/off p. 11

OK Press this key to activate your choice, when in the menus.

Press + or - to adjust the volume.

Interrupt the sound or restore it.

CH Programme selection

To browse through the TV channels and sources stored. Only those channels which are in the favourite list can be selected with the **- CH +** keys.

0/9 Digit keys

To select a TV channel.
For a two digit programme number, enter the second digit within 2 seconds.
To switch immediately to a selected one digit TV channel, keep the digit key pressed a bit longer.

Screen information

Press to display information about the selected TV channel and programme.

Menu / Remote Control information

When the menu is on screen, press to display info on the selected menu item. While the menu info is displayed, press any key to display remote control info. See p. 7.

P‹P Smart surf

With this feature you can easily switch between up to 9 different TV channels/sources.
In the menu system, you can set Smart surf to 2- or 9-programme.
Press this key to select the previously viewed TV channel or source in case of a 2 programme surf, or to select the surf ring in case of a 9 programme surf.
In case of a 9 programme surf, a list appears at the right side of the screen. On top, the most recent programme is displayed. The puck is on the channel number currently viewed.
Press the P‹P key to turn to the next channel in the list or press cursor up/down to immediately select the desired TV channel of the list.

To add a new channel or source: tune to the channel or source you wish to add.
Press the P‹P key. Press the cursor right to add.
If there are already nine channels/sources in the list, the one at the bottom of the list will be removed.

To remove a channel or source: select the channel number you want to remove.
Press the P‹P key. Press the cursor right to remove.
Press the **OK** key or wait for the time out to dismiss the Smart surf display.

Time display: The time is displayed on the screen.

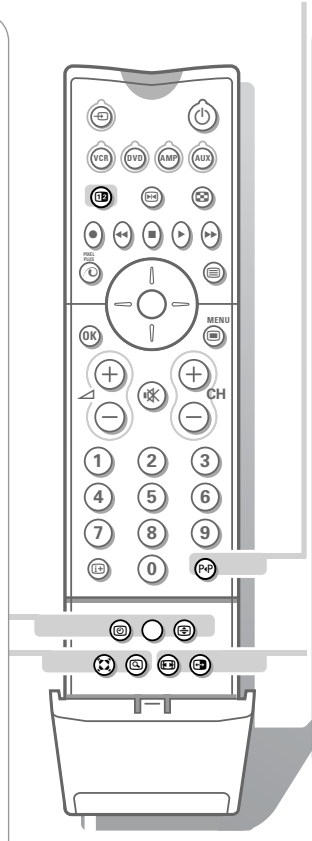
Teletext function p. 14

Surround mode

Incredible surround
With stereo transmission, and when Incredible surround is selected, it seems as though the loudspeakers are spread further apart from one another.

Virtual Dolby surround
Optimal with Dolby surround signals
Enables you to experience the effect of Dolby Surround Pro Logic, reproducing a rear sound effect. See Sound menu, 3D effect, p. 12.
Note: You can make the same selection in the Sound menu, surround mode, p. 12.

Zoom on/off
Press the zoom key to activate/ deactivate the zoom function. Press the **OK** key repeatedly to select one of the zoom magnifications (x1, x4, x9, x16). Use the cursor up/down, left/right to shift the selected zoom window over the screen with the cursor.
The zoom window is reset after: selecting another TV channel, another picture format or when another picture format is selected automatically.



Picture format
Press this key to summon a list of **available** picture formats.
Press this key repeatedly or press the cursor up/down to select another picture format: Auto format, Super zoom, 4:3, Movie Expand 14:9, Movie Expand 16:9, Subtitle zoom, Wide screen.
Auto format makes the picture fill the screen as much as possible.
In case of subtitles in the bottom black bar, Auto format makes the subtitles visible. In case of a broadcaster logo in the corner of the top black bar, the logo disappears from the screen.
Super zoom removes the black bars on the sides of 4:3 programs with minimal distortion.
When in Movie Expand 14:9, 16:9 or Super zoom picture format, you can make subtitles visible with the cursor up/down.

no function

Smart Keys

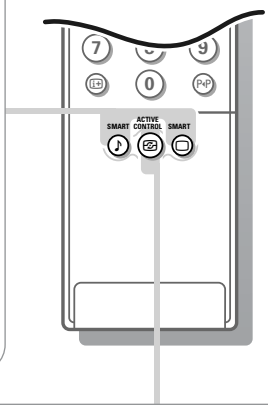
To select predefined picture and sound settings.

Smart Sound

Each time it is pressed, a different sound setting is selected, corresponding with specific factory settings of treble and bass.

Smart Picture

Each time it is pressed, a different picture setting is selected, corresponding with specific factory settings of Contrast, Colour, Sharpness, Dynamic Contrast and Colour enhancement.



Personal refers to the personal preference settings of picture and sound selected in the picture and sound menu.

Remark: the moment you are in a predefined smart sound or picture setting and you modify a setting in the picture or sound menu, all values of the menu will overwrite the previously made Personal settings. The predefined factory settings remain unchanged.

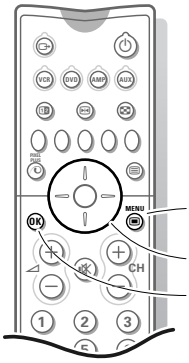
Active control

Active control is a pro-active and automatic system. The TV continuously measures and corrects all incoming signals in order to provide the best picture possible.
Press the key repeatedly to select the Active Control values Off or On.

Off Sharpness and Dynamic Contrast are controlled automatically
On Sharpness, Dynamic Contrast and Noise Reduction are controlled automatically.

Press the cursor right to select **INFO+**.
The Active Control demo menu appears.
The picture settings are being adapted continuously and automatically.
The menu items cannot be selected.
Press the **OK** key to switch off the Demo.

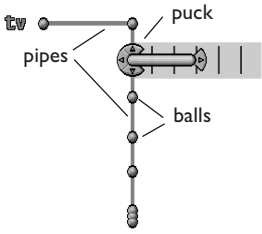
Use of the menus and the menu system



1. Press the **MENU** key on the remote control to summon the main menu.
   Note: Should your remote control be lost or broken you can still use the keys on top of the TV. See p. 2.
2. Use the cursor in the up/down direction to select the TV, Settings, Install or Demo menu.
   Note: Sometimes not all the menu items are visible on the screen. Press the cursor down to reveal all items.
3. Use the cursor left/right to select the menu item.
4. Use the cursor up/down again to select the control you want to select or to adjust. For instance, see Picture menu.
5. Press the **MENU** key to turn off the main menu.

The menu system

Pipes, balls and a puck



The hierarchy of menus and controls is represented by an animated visual mechanism of pipes, balls and a puck. Unlike a map, however, the animated mechanism constantly shows the current whereabouts, continually expands the view of the immediate neighbourhood.

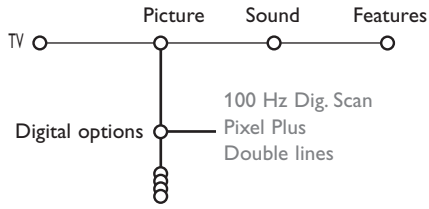
The puck surrounds the ball indicating the user's current position in the menu hierarchy. The puck is always present when the menu system is displayed. The puck is divided into 4 parts. They correspond to the directional controls (up/down, left/right) on the remote control. The arrows on the cursor indicate which directions to choose. In this way users can navigate through the menu hierarchy to the control they wish to adjust.

When menu items are more numerous than can fit comfortably on the TV display, only a portion are shown.
Those omitted are indicated by a cluster of balls which indicates that there are 'more' below.

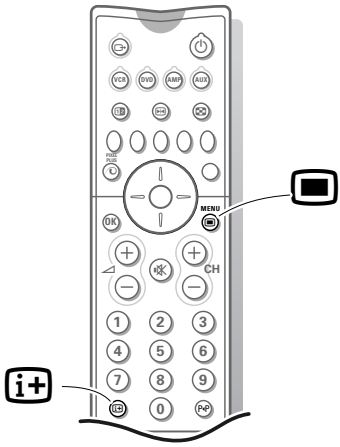
Direct selection and control

Menu items are controlled as soon as they are selected by the puck. Only a few items require information with the **OK** key.

List controls



A list control is used to select one or more items from a list of options. Press the right key to move the puck into the list. At least one item is the current value and is highlighted.
Moving the puck up or down with the up/down key causes the list to move up or down.



Menu Info

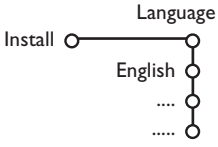
1. Press the **MENU** key and select a menu item or submenu item.
2. Press the i+ key on the remote control to get information about the selected menu item.
3. Press the i+ key again to exit.

Remote Control Info

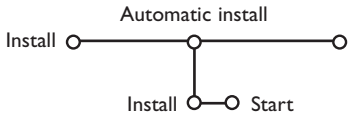
1. Press the **MENU** key.
2. Press the i+ key.
3. Press any key on the remote control (except the cursor keys, the **OK**, the **MENU**, the digit, the i+ and the power keys) and you get information about the pressed key.
   The normal function of the key is not executed.
   The moment one of the remote control keys which do not invoke remote control info, is pressed, remote info is cancelled.
4. Press the i+ key to display the menu that was on screen before a remote control key for info was pressed.

Select the menu language

1. Press the **MENU** key on the remote control.
2. Use the cursor down to select **Install**.
3. Use the cursor right to select **Language**.
   Follow the instructions on screen.
4. Use the cursor up/down to select your preferred language and press the **OK** key to confirm your selection.
5. Proceed with the Install menu.



Store TV channels



You can now search for and store the TV channels in two different ways: using Automatic Installation or Manual Installation (tuning-in channel by channel).
Select your choice with the cursor right.

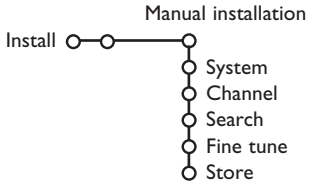
Automatic installation

1. Select **Automatic installation** in the Install menu.
   Note: All channels must be unlocked in order to autoprogram. If requested, enter your PIN to unlock all channels. (See TV, Features menu, Child lock, p. 15.)
2. Press the cursor down.
   The autoprogramming option label **Start** appears.
3. Press the cursor right.
4. The message **Searching** appears and the progress of autoprogramming is displayed.

When the Automatic installation is complete, the puck navigates to Install again.
The programme list is automatically filled with all the programme numbers of the TV channels transmitted.

Note: Channel numbers and names will always be written in Latin characters, even when a language has been selected which uses other characters.

Manual installation



Searching for and storing TV channels is done channel by channel. You must go through every step of the Manual Installation menu.

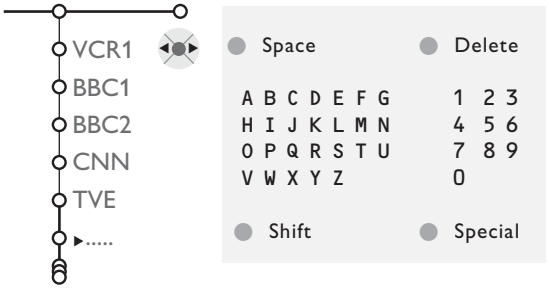
Press the i+ key on the remote control to get information about the selected menu item.

1. Select **Manual installation** in the Install menu.
2. Press the cursor down.
   Follow the instructions on screen.

   Note: Search or direct selection of a TV channel. If you know the frequency, enter the 3 digits of the frequency directly with the digit keys 0 to 9 (e.g. 048). Press the cursor down to proceed.

   Repeat to search for another TV channel.

Give name



It is possible to change the name stored in the memory or to assign a name to a TV channel for which a name has not yet been entered. A name with up to 5 letters or numbers can be given to the programme numbers 0 to 99. For example SUPER, BBC1,... Before programme number 0 you can also enter a name for the peripherals that are connected to an external input.

1. Select **Give Name** in the Install menu and press the cursor down.
2. Select the programme number.
   Note: keep the cursor up/down pressed to scroll through the programme list and to avoid that the TV tunes to each channel passed by.
3. Press the cursor right.
   A keyboard appears on the screen. Only European characters are displayed.
   Note:
   - *Dependent on the language selected in the language menu, the key **Special** is available or not.*

   Press the cursor right to enter the keyboard. Press the cursor up/down, left/right to select the first character and press **OK**.

   Repeat for every character you want to enter.
   Select **Space** to enter a space; **Delete** to erase the highlighted character in the name entered; **Shift** to display upper- or undercast characters on the keyboard; **Special** (when available) to display special characters on the keyboard. Press **OK** to confirm.
4. Press the cursor left repeatedly when you have finished the name giving of the selected channel or peripheral.
5. Select another programme number and repeat steps 3 to 5.

Reshuffle the programme list

According to your preference you can change the order of the stored TV channels.

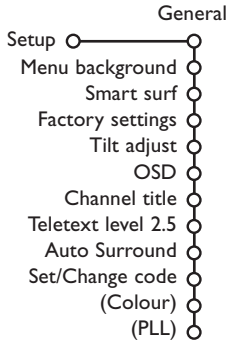
1. Select **Reshuffle** in the Install menu and press the **OK** key.
2. Follow the instructions on screen.

Select Favourite TV channels

1. Select **Favourite programmes** in the Install menu.
2. Select your programme number with the cursor up/down.
3. Select **Yes** or **No** with the cursor right.
4. Repeat 2 and 3 for every TV channel or external you want to make a favourite or a non-favourite TV channel or external.
5. To exit the Favourite programmes menu, keep the cursor up pressed.

Install TV Setup

General



This menu allows you to change various settings that are presumably adjusted less frequently than most other settings.
Press the i+ key on the remote control to get information about the selected menu item.

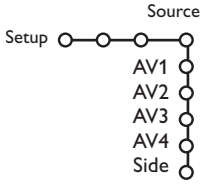
Auto Surround

Sometimes the broadcaster transmits special signals for Surround Sound encoded programmes. The TV automatically switches to the best surround sound mode when **Auto Surround** is switched **On**.

Set/Change code

1. Select **Set** or **Change code** with the cursor down.
2. If no code exists yet, the menu item is set to **Set code**. Follow the instructions on screen.
   If a code has previously been entered, the menu item is set to **Change code**. Follow the instructions on screen.
   All number combinations from 0000 to 9999 are valid numbers.

Source

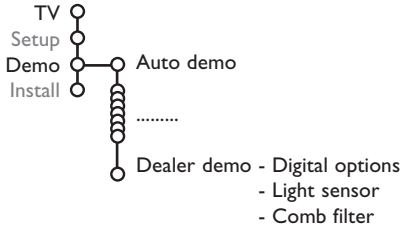


This menu allows you to select the peripheral you connected to one of the external inputs.

1. Select **Source** with the cursor right.
2. Press the cursor down to select one of the external inputs.
3. Press the cursor right to enter the list of names of peripherals attached to the selected input.
4. Select the peripheral device with the cursor up/down.

Once you have selected the source, e.g. VCR, this AV-input will automatically be selected when your remote control is in VCR mode and when you press the ⊣⊡ key on the remote control. See p. 19.

Demo menu



The Demo menu allows to demonstrate the TV features separately or in a continuous loop.

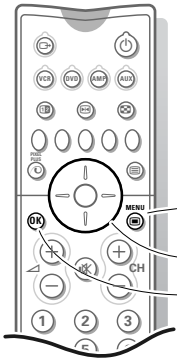
1. Select **Demo** in the Main menu with the cursor down.
2. Select **Auto demo** or one of the features with the cursor right and press the **OK** key on the remote control.

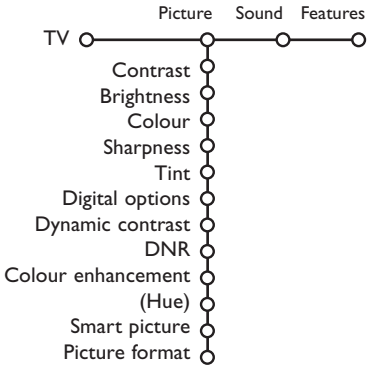
If **Auto demo** has been selected the demo will automatically present all the features sequentially in a loop.
Press one of the cursor keys to stop the Auto demo. If one of the features has been selected, this particular feature demo will run one time only, until activated again, and the Demo menu will reappear.

Select Dealer Demo

Select **Digital options**, **Light sensor** and **Comb filter** On or Off to really see the difference in picture quality.
In Dealer Demo mode it is possible to change channels with **- CH +** and to adjust the volume.
Note: the Dealer Demo is not part of the automatic sequence and can only be activated separately.

TV menu





Press the **MENU** key on the remote control to summon the main menu.
Use the on-screen Menu-Info, see p. 7, for more information about the menu items.

Picture menu

Press the cursor right to select **Picture**.
Select the menu items in the Picture menu with the cursor up/down.
Adjust the settings with the cursor left/right or enter the list of submenu items with the cursor right.
Select a submenu item with the cursor up/down.
Note: To remove the menu background before adjusting the picture settings, see Select TV setup, General, p. 10.

Digital options

With PAL signals:

Digital Natural motion (100 Hz + Dig. scan + Natural motion) is the most ideal setting, but you may consider, dependent on your own preference, to select **100 Hz Dig. scan** (100 Hz + Digital scan without motion compensation).
Dig. Nat. Motion 1250 (a doubling of vertical resolution which adds astonishing sharpness + motion compensation).

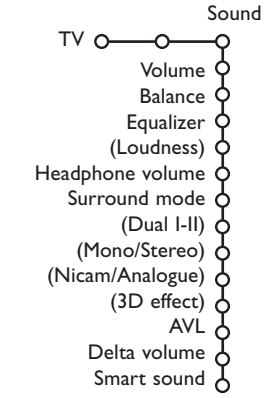
With NTSC signals:

The possible options are **Progressive scan**, without motion compensation, or **Dig. nat. Motion 1250**.

Note: if the menu item Digital options is not present, first select a 4:3 picture format with the key.

The modified adjustments for Contrast, Brightness, Colour, Sharpness, Tint, Digital options and Dynamic Contrast are automatically stored.
Select Factory settings in the Setup menu, General, to restore the predefined factory settings, see p. 10.

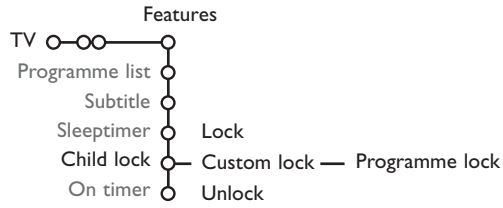
Sound menu



Press the cursor right to select **Sound**.
Select the menu items in the Sound menu with the cursor up/down and adjust the settings with the cursor left/right.
Remember, control settings are at normal mid-range levels when the bar scale is centred.

Note:
- *Dual I-II is only available with dual sound transmission.*
- *Mono/Stereo is only selectable in case of analogue stereo transmission.*
- *Nicam/Analogue is only selectable in case of Nicam transmission.*
- *Surround modes can not be modified when a headphone has been connected.*
- *You can also select one of the Surround modes with the key on the remote control. See p. 4.*

Features menu



Press the cursor right to select **Features**.
Select the menu items in the Features menu with the cursor up/down and adjust the settings with the cursor left/right. Use the on-screen Menu-Info [i+] for more information about the menu items.

Programme list

Press the **OK** key to switch over to the selected TV channel or external.

Select subtitles

Switch on teletext and select the proper subtitle page from the index.
Switch off teletext. Now the subtitle page is stored for the selected TV channel.
Once subtitles have been stored and **Subtitle On** has been selected they will automatically be displayed on the selected TV channels if subtitles are in the transmission.
A symbol will indicate that the mode is on.
Select **On during mute** when you want to have the subtitles automatically displayed when the sound has been muted with the [🔇] key on the remote control.

Child lock

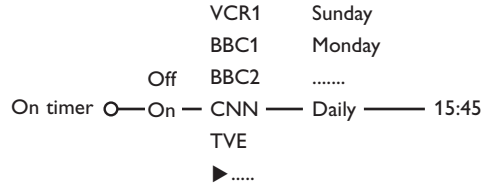
1. Select **Child lock** with the cursor down.
2. Press the cursor right to enter the Child lock menu. You're summoned to enter your code. Enter the access code.
   Note: You have to re-enter your code each time you enter the child lock menu.

   Important: You have forgotten your code !
   - Select **Cancel** with the cursor down.
   - Select **Set/Change code** in the Setup menu. See General menu, Set/Change code, p. 10.
   - Press **OK**.
   - Press the cursor right and enter the overriding code 8-8-8-8.
   - Press the cursor again and enter a new personal 4-digit code. The previously code is erased and the new code is stored.

   Note: The overriding code only works in the Set/Change code menu.
3. Select one of the menu items of the child lock menu.
   - Select **Lock** if you want to lock all channels and externals.
   - Select **Custom lock** and press the cursor right. Select **Programme lock** if you want to lock the programmes from a certain TV channel or external.
   - Select **Unlock** to unlock all locked channels and externals at once.

On timer

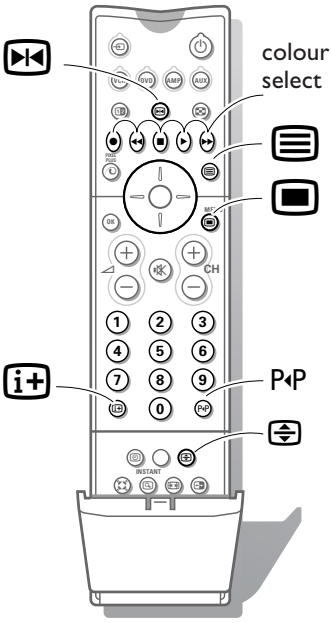
1. Select **On timer** with the cursor down.



2. Select **On** with the cursor right.
3. Press the cursor right again to enter the programme list.
4. Select the TV channel or external you want your TV to switch to on a selected time and day.
5. Press the cursor right again to select a day of the week or to select **Daily**.
   Select **Daily** to set the On timer for daily operation on the selected TV channel or source.
6. Press the cursor right once again to enter the time.
7. Enter the time with the digit keys or with the cursor up/down, left/right and press the **OK** key to confirm.
8. Press the **MENU** [▣] key to turn off the menu.

   Note: To check your timer settings, press the [i+] key

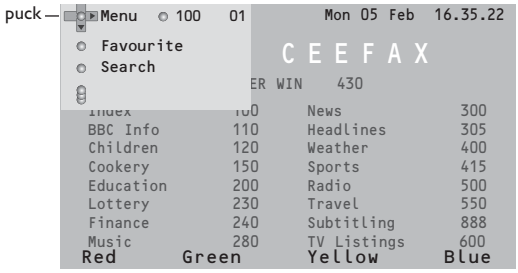
Teletext



Most TV channels broadcast information via teletext. This TV has a 1200 pages memory that will store most broadcasted pages and subpages to reduce waiting time. After each programme change, the memory is refreshed. It may take some time for all pages to load.
Depending on the TV channel, teletext is transmitted in different systems. The colours used in the bottom line of the teletext page correspond with the colour keys of your remote control.

Switch Teletext on and off

Press ☰ to switch the teletext on or off.
The main index page appears on the screen.
It shows an information line at the top, an option line at the bottom and a puck in the top left corner of the screen.



Select a Teletext page

With the digit keys

Enter the desired page number with the digit keys.
The page counter seeks the page or the page appears immediately when the page number has been stored in the memory.
A message appears when you have entered a non existent or incorrect page number. Page numbers beginning with 0 or 9 do not exist. Choose another number.

With the option line

Select with the colour keys, corresponding to the coloured options at the bottom of the screen, the desired subject.

Select Picture/Teletext

Select a TV channel which broadcasts teletext.
Press ☰ to switch the teletext on.
Press the 1 2 key.
The screen is divided into two parts: the left side for the normal main picture, the right side for teletext broadcast by the selected TV channel.
Press the ☰ key to return to a full screen picture or press the 1 2 key to return to a full teletext picture.

Quickly run through the txt pages

Press the cursor up/down or the **- P +** key to run through the previous or the following pages.

Select the previously selected page

Press the P↤P key.
Note: Only possible when teletext pages are active, not when the Teletext menu is displayed.

Select the index teletext page

Press the grey colour key ▶▶ to display the main index (usually p.100).

Select subpages

When a selected teletext page consists of different subpages, one of the subpages appears on the screen.
Press the cursor right to highlight the subpagenumber. Press the cursor up/down to select the next or previous subpage or enter the subpagenumber with the digit keys.

Special teletext functions

Hold

Press ⏯ to stop the automatically rotating of the subpages or to stop the page counter from seeking when you have entered a wrong page number or when the page is not available. Enter another page number.

Enlarge

Press ⇳ repeatedly to display the upper part, the lower part and then to return to the normal page size. When the upper part is displayed, you can scroll the text, line by line using the cursor up/down.

Hypertext

With hypertext you can select and search for pages containing any word or number on the current teletext page.

1. Make sure you are not in the teletext menu and that the puck is in the upper left corner of the screen.
2. Press the cursor key down to highlight the first word or a number on the page.
3. Use the cursor up/down, left/right to select the word or number you want to search for.
4. Press the **OK** key to confirm.
   A message appears at the bottom of the screen to indicate that the searching is going on or that the word or page is not found.

Select Continuous Subtitles

TV channels with teletext often transmit programmes with subtitling. For each TV channel you can store a subtitle page.
Switch on teletext and select the proper subtitle page from the index.
Switch off teletext. Now the subtitle page is stored for the selected TV channel.
Select **Subtitle On** or **Off** in the Features menu, see p. 12. The subtitle symbol ⊟ appears when Subtitle On is selected.

Teletext menu

(only available in full screen teletext mode)

1. Press the ▣ **MENU** key to activate the menu.
2. Press the cursor up/down to select the menu items.

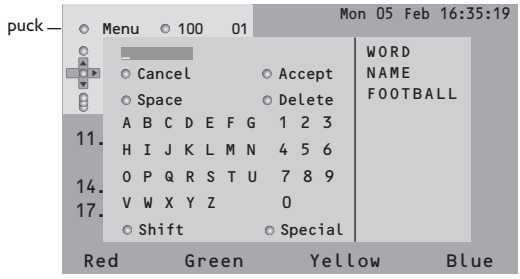
Favourite

This list contains up to eight favourite teletext pages. Only the pages of the current channel can be selected.

1. Press the cursor right to add the current page or to select one of the favourite pages to the list.
2. Press the **OK** key or the cursor right again to add.
3. Press the cursor left to return to the Teletext menu.

Search

On the keyboard on screen you can type in a word you want to search for in the teletext pages. Whether upper- or lowercase is used has no influence. Searching for page numbers is not possible.



1. Press the cursor left/right, up/down to select the characters, words or functions.
2. Press the **OK** key to confirm each character selected.
3. Select **Cancel** to cancel the word or character selected; **Space** to enter a space; **Delete** to delete the last character selected; **Shift** to switch between undercast or capital characters; **Special** to display special characters on the keyboard.
4. Press the cursor left repeatedly to return to the Teletext menu again.

Searching a word

1. Type in the word on screen or select a word from the history list on the right and press **OK**.
2. Select **Accept** and press **OK** again. The message **Searching** appears. When the word is found, it is highlighted in the teletext page.
3. To continue the search, press the **OK** key twice. When a word is not found, a message appears.
4. To search for a new word, select **Keyboard** and press **OK**. Select the new word.

Reveal

Reveals/conceals hidden information on a page, such as solutions to riddles and puzzles. Press the **OK** key to activate. Press **OK** again to return to the Teletext menu.

Cycle subpages

Makes the subpages cycle automatically. Press the **OK** key to activate and to de-activate again.

Timed page

To display a specific page at a certain time.

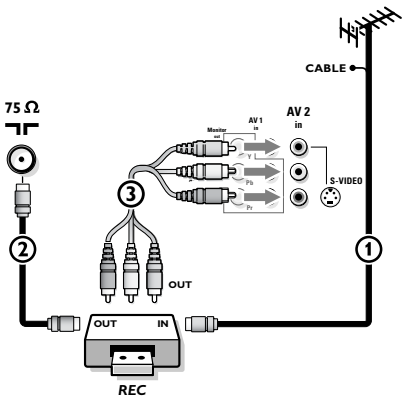
1. Press the cursor right to select **Yes** or **No**.
2. Enter the time and pagenumber with the cursor keys or the digit keys.
   Note: Teletext does not have to remain switched on. It is not possible to display a timed page when the TV is switched to standby.

Connect Peripheral equipment

There is a wide range of audio and video equipment that can be connected to your TV. The following connection diagrams show you how to connect them to the back or the right side of the TV.

AV1 IN can handle CVBS and YPbPr; AV2 IN CVBS and Y/C; AV3 and AV4 IN digital signals of a e.g. digital HD receiver or Progressive scan DVD; SIDE: CVBS and Y/C.

Recorder

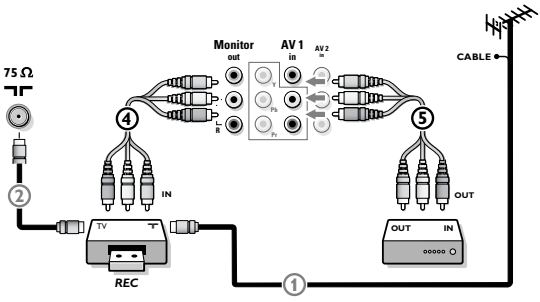


1. Connect the RF Antenna ① to the **RF IN** socket of your recorder.
2. Connect another RF cable ② from the output **OUT** of your recorder to the TV's input 75 Ω ⊓ jack.
3. Better playback quality can be obtained if you also connect the Video, Audio Left and Right (only for stereo equipment) AV cables ③ to the **VIDEO, AUDIO L** and **R** input jacks of **AV2 IN**.

If your recorder has an S-VHS video jack:

For improved picture quality, connect an S-video cable with the **S-VIDEO** input instead of connecting the recorder to the **VIDEO** jack of **AV2 IN**.
S-Video does not provide audio, so audio cables must still be connected to provide sound.

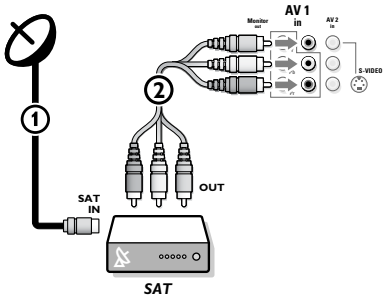
Recorder and other A/V peripherals



1. Connect your recorder as described above. The **MONITOR OUT** connectors can be used to record programmes from your TV ④.
See Record with your recorder, p. 19.
2. Connect the Video, Audio left and Audio right (only for stereo equipment) cables to the **VIDEO**, **AUDIO L** and **R** input jacks of **AV1 IN** ⑤ or the side connections (see p. 18).

Note: In case of mono equipment, only the left loudspeaker reproduces sound. Use a mono to stereo adaptor (not supplied) for sound reproduction via all internal loudspeakers.

Satellite Receiver

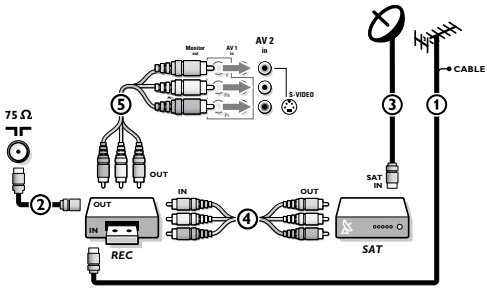


1. Connect the satellite antenna cable ① to the satellite receiver's **SATELLITE IN** jack.
2. Connect the Video, Audio left and right (only for stereo equipment), AV cables ② to the **VIDEO**, **L** and **R AUDIO** input **AV1 IN** jacks.

If your satellite receiver has an S-VHS video jack:

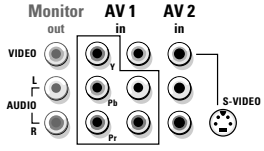
For improved picture quality, connect an S-VHS video cable with the **S-VIDEO** input instead of connecting the satellite receiver to the **VIDEO** jack of **AV2 IN**.

Satellite Receiver with a recorder



1. Connect your satellite receiver as described above.
2. Connect the RF Antenna or Cable TV cable ① to the **RF IN** socket of your recorder.
3. Connect another RF cable ② from the output of your recorder to the TV's 75 Ω ⌐╥ jack.
4. Connect the satellite antenna cable ③ to the satellite receiver's **SATELLITE IN** jack.
5. Connect the AV cables ④ to the satellite receiver's **AV OUT** jacks and to the VCR's **AV IN** jacks.
6. Connect the recorder's **AV OUT** jacks ⑤ to the TV's **AV2 IN** jacks.

DVD player or other accessory digital source equipment



Equipment with AV connectors only

1. Connect the video cables to the equipment's **AV OUT** jacks and to the TV's **AV1** or **AV2 IN** jacks.
2. Connect the audio cables to the equipment's **AUDIO L** and **R** jacks and to the **L AUDIO** and **R AUDIO AV1** or **AV2** jacks on the TV. (According to where you connected the video cables, to **AV1** or **AV2**.)

Equipment with an S-VIDEO connector

1. Connect an S-video cable the **AV2 S-VIDEO** input.
   *Note: When using the **S-VIDEO** connector do not connect any device to the video input.*
2. Connect the audio cables to the equipment's **AUDIO L** and **R** jacks and to the **L AUDIO** and **R AUDIO AV2** jacks on the TV.

With Component Video Output Connectors

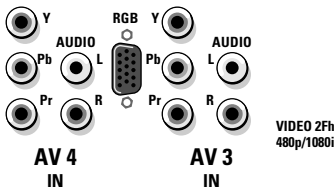
1. Connect the cables of your **YPbPr** equipment to the **YPbPr** input **AV1 IN** sockets on the TV.
   *Note: When using the **YPbPr** sockets do not connect any device to the video input of AV1.*
   *The YPbPr sockets on the TV are compatible with 480i (interlaced, 1 Fh) output signals only, **not** 480p (progressive scan, 2 Fh).*
2. Connect the Audio left and right (only for stereo devices) cables to the **AUDIO L** and **R** input of **AV1**.

Equipment with Progressive scan output (480p, 576p or 1080i 2 Fh)

Connect the equipment to the **AV3** or **AV4 IN** jacks on the TV. See **AV3** or **AV4** Digital HD input, next page.

Note: The labels for the component video sockets may differ depending on the DVD player. Although the abbreviations may vary, the letters B and R stand for the blue and red component signals, respectively, and Y indicates the luminance signal. Refer to the DVD player's instructions for use for definitions and connection details.

AV3/AV4 Digital High Definition input



AV3/AV4 input connectors will accept the following signals from HD set top box (HD-STB) decoders and progressive scan DVD players:

ED 480p	31.470 kHz	60 Hz
HD 1080i	33.750 kHz	60 Hz
HD 576p	31.250 kHz	50 Hz

AV3/AV4 input connectors also accept the following 1250 line HD display formats (available on selected HD-STB decoders) as detailed in the Australian DTV Receiver Standards:

HD 1152i (1250)	31.250 kHz	50 Hz
HD 1080i (1250)	31.250 kHz	50 Hz

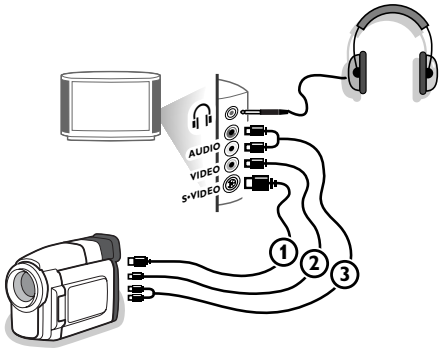
Connect the equipment with 2 Fh RGB output to the **RGB** connector and to the **L** and **R AUDIO** jacks of **AV3**.
Connect the equipment with 2Fh YPbPr output to the **Y, Pb** and **Pr** jacks and to the **L** and **R AUDIO** jacks of **AV4**.
See also the manual of your High Definition equipment.

Inputs AV3 and AV4 also allow horizontal and vertical picture shift using the remote control cursor left/right, up/down.

Note:
- *60 Hz normally refers to USA markets and 50 Hz to UK, Europe and Australian markets.*
- *The AV3 RGB (D-15) connector will accept only the signal standards 480p/60 Hz, 1080i/50 Hz and 1152i/50 Hz and is only for TV standards.* ***It is not a PC connector.***

Warning: in case you notice scrolling images, wrong colours or no colour, no picture, or even combinations of these on your screen, check if the connections are done in the right way.

Side connections



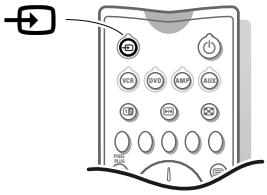
1. Connect your camera or camcorder to sockets at the right side of your TV.
2. Connect the equipment to **VIDEO** (2) and **AUDIO L** (3) for mono equipment. For stereo equipment also connect **AUDIO R** (3).
   S-Video quality with an S-VHS, Hi-8 or Digital camcorder is obtained by connecting the S-Video cables with the **S-VIDEO** input (1) (instead of **VIDEO** (2)) and **AUDIO** inputs (3).
   Note: If you prefer, you can also connect the camcorder to one of the TV's rear ***AV IN*** *jacks.*

Headphone

1. Insert the plug into the headphone socket at the right side of the TV.
2. Press on the remote control to switch off the internal loudspeakers of the TV.
   The headphone impedance must be between 8 and 4000 Ohm. The headphone socket has a 3.5 mm jack.

   In the **SOUND** menu select **Headphone volume** to adjust the headphone volume.

To select connected equipment



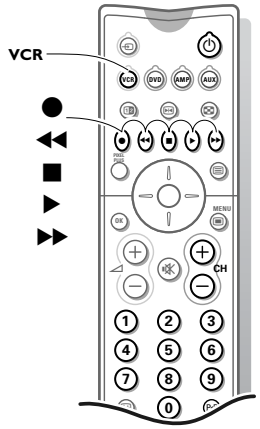
Equipment connected to the rear or on the right side of the TV

1. Press the ⇥ key to select **AV1**, **AV2**, **AV3**, **AV4** or **SIDE**, according to where you connected your equipment at the rear or on the right side of your TV.
2. Press the cursor up/down.
3. Press **OK**.

If you want to change to TV channels?

Enter the channel number of the TV channel which you want to watch with the digit keys.

VCR Control keys



Most of the audio and video equipment from our range of products can be operated with the remote control of your TV.

Press the **VCR**, **DVD**, **AMP** or **AUX** key according to the equipment you want to operate with this remote control. See Use of the remote control, p. 3.

VCR keys

After you pressed the **VCR** key, press one of the VCR keys of the remote control:

- ● for record,
- ◀◀ for rewind,
- ■ for stop,
- ▶ for play,
- ▶▶ for fast forward,
- **- CH +** for sequential channel selection from the video recorder tuner,
- 0 to 9 to select a channel number from your video recorder tuner,

These keys function with devices that uses the RC5 signalling standard.

Record with your recorder

To record S-VHS quality, connect an S-VHS peripheral directly to the recorder.

Record a TV programme

You can record a TV programme using your recorder's tuner without affecting your TV.

1. Select the channel number on your recorder.
2. Set your recorder to record.
   See the handbook of your recorder.

Switching channel numbers on your TV does not disturb recording !

Record from MONITOR OUT

You can record a programme on your recorder from the TV tuner via **MONITOR OUT**.

1. Switch on the equipment.
2. Select the correct channel on your TV and the correct input on your recorder.
3. Set your recorder to record.
   You record the tuner channel of the TV, even when you switch to an AV input using the ⇥ key on the remote control.

*Do not switch channels or switch off your TV when you are recording through **MONITOR OUT**.*

Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money since charges for television installation and adjustments of customer controls are not covered under your warranty.

Symptoms	Items to Check and Actions to follow
"Ghost" or double images	• This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	• Check that the television's AC power cord is plugged into the mains socket. • Unplug the television, wait for 60 seconds. Then re-insert plug into the mains socket and switch on the television again.
No picture	• Check antenna connections at the rear of the television to see if it is properly connected to the television input terminal. Is it properly secured to the appropriate antenna plug on the TV? • Possible broadcast station trouble. Try another channel. Try running the Automatic installation. • Adjust the contrast and brightness settings. Try another smart picture setting. • Check the ⊣⊡ key on the remote control to make sure the correct signal source is selected.
Good picture but no sound	• Increase the VOLUME. • Check that the TV is not muted, press the 🔇 key on the remote control. • When no signal is detected, the television automatically switches off the sound. This is proper operation and does not indicate a malfunction. • If you have attempted to hookup peripheral equipments, check the audio jack connections. • Check if the headphone is not plugged in. • Check if the channel is broadcasting good quality surround.
Good sound but poor colour or no picture	• Adjust the contrast and brightness setting. Try another smart picture setting.
Poor picture	• Sometimes, poor picture quality occurs when having activated an S-VHS camera or camcorder connected to the right side of your TV and another device is connected to **AV1** or **AV2** at the same time. In this case, switch off one of the other equipments.
Snowish picture and noise	• Check the antenna connection.
Horizontal dotted line	• This may be caused by electrical interference (hairdryer, nearby neon lights....) • Switch off the equipment.
One white line across the screen	• Switch off the television immediately and consult a qualified service personnel.
Television not responding to remote control	• Check whether the batteries are working. Replace if necessary. • Clean the remote control sensor lens on the television. • Operating range between television and the remote control should not be more than 240". • You can still use the **M** key and the -/+ keys at the top of your TV. • Press the ⊣⊡ key to be sure your remote control is in the TV mode.

If your problem is not solved:
Turn your TV off and then on again.

Never attempt to repair a defective TV yourself.
Check with your dealer or call a TV technician.

Tips

Care of the screen

Clean the TV with a slightly damp soft cloth. Do not use abrasive solvent as it can damage the TV screen.

End of life directives

We are paying a lot of attention to using environmentally-friendly production methods. Your new TV contains materials which can be recycled and reused.
At the end of its life specialised companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials that must be disposed.

Please ensure that you dispose of your old TV according to local regulations.

How to dispose of batteries?

The batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless in many areas batteries may not be disposed of with your household waste. Please ensure you dispose of batteries according to local regulations.

Glossary

Active Control

Measures and corrects incoming signals in order to provide the best picture quality settings.

AVL

Automatically controls the volume level to avoid too large level differences, especially during commercial breaks.

DNR

Digital Noise Reduction.
By encoding signals digitally in 100 Hz sets, it is possible to clean up picture noise. This is especially beneficial in poor signal areas and when viewing poor quality video tapes.

Display

An on screen message or graphics that help the user operate and adjust TV feature controls. See On Screen Displays (OSD).

Hue

TV-function to modify the general colour balance between cool and warm and to adjust it according to your personal preference.

Menu

An on-screen listing of feature controls shown on the TV screen that are made available for user adjustments.

Picture and Sound Controls

Keys on the remote control to select predefined picture and sound settings.
The Eco picture mode is intended to lower power consumption of the TV and to improve picture quality of low quality digital sources.

Picture Freeze

TV mode which allows you to “freeze” a certain image in order to study a specific detail at ease, e.g. to make notes of certain programme information like phone numbers.

Programming

The procedure of adding or deleting channel numbers into the TV’s memory circuits. In this way the TV ‘remembers’ only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Specifications

	32PW8808
Picture tube size	32" (740 mm)
Picture visible area	27" (680 mm)
TV system	(3,58)
Playback system	(3,58)
Antenna input	75 ohms - co-axial
Operating voltage, Frequency	Refer to the specifications at the back of the TV
Power consumption	Refer to the specifications at the back of the TV
Audio Output	2 x 15 W (left, right)
Dimension: Width Height Depth	 855 mm 540 mm 560 mm
Nett weight (aprrox. only)	52 kg

International guarantee conditions

This product is guaranteed by Philips for a period of one year after the date of purchase against defects due to faulty workmanship or materials. The guarantee covers both parts and labour.

Service under guarantee is only provided upon presentation of reasonable evidence (e.g. completed guarantee card or purchase receipts) that the date of the claim is within the guarantee period.
The guarantee is not valid if the defect is due to accidental damage (including in transport), misuse of neglect and in case of alterations or repair carried out by unauthorised persons.
The guarantee may not apply if the product requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorised or if any damage results from these modifications.
Service (during and after guarantee) is available in all countries where this product is officially distributed by Philips. In countries where Philips do not distribute the product, the local Philips Service organisation will also provide Service although there may be a delay if the appropriate spare parts and technical manual are not readily available.

These statements do not affect your statutory rights as a consumer.
In the event of difficulty please contact the Philips Information Centre in any country (see enclosed addresses).

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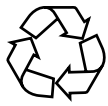

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